

01407090 TOWN BROOK AT MIDDLETOWN, NJ

COMPTON CREEK BASIN

LOCATION.--Lat 40°23'20", long 74°06'17" referenced to North American Datum of 1983, Middletown Township, Monmouth County, NJ, Hydrologic Unit 02030104, at bridge on Spruce Drive, 0.4 mi west from State Highway 35, 0.7 mi southeast from Middletown, and 2.5 mi upstream of mouth.

DRAINAGE AREA.--0.92 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 12.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Sample medium and type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)
Nov 29...	0900	Surface water, regular	3.9	.117	.097	765	8.5	69	7.2
Feb 04...	0930	Surface water, regular	4.0	.096	.078	771	9.5	71	7.1
May 06...	0900	Surface water, regular	6.6	.093	.073	762	8.6	80	7.4
Aug 06...	0815	QC - Artificial, field blank	--	--	--	--	--	--	--
06...	0900	Surface water, regular	25	.150	.119	756	2.5	27	7.1

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Specific conductance, wat unf μ S/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, flttrd, mg/L (00915)	Magnesium, water, flttrd, mg/L (00925)	Potassium, water, flttrd, mg/L (00935)	Sodium, water, flttrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, flttrd, mg/L (00940)	Fluoride, water, flttrd, mg/L (00950)	Silica, water, flttrd, mg/L as SiO2 (00955)	Sulfate water, flttrd, mg/L (00945)
Nov 29...	284	4.5	5.4	93	30.6	3.98	3.37	12.9	57	33.4	.19	11.7	21.2
Feb 04...	273	3.0	3.1	76	24.5	3.58	2.69	16.5	37	35.6	.16	10.3	23.5
May 06...	276	20.0	12.6	93	30.9	3.96	2.45	14.9	56	33.2	.24	11.7	21.0
Aug 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	341	24.5	20.6	100	34.1	4.01	4.47	18.3	84	37.2	.28	13.9	19.7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Residue water, flttrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, flttrd, mg/L as N (00623)	Ammonia water, flttrd, mg/L as N (00608)	Nitrate + nitrite water flttrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, flttrd, mg/L (00602)	Total nitrogen, water, unflttrd mg/L (00600)	Ortho- phosphate, water, flttrd, mg/L as P (00671)	Phosphorus, water, flttrd, mg/L as P (00666)	Phosphorus, water, unflttrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)
Nov 29...	E153	175	2	.32	.062	.25	E.03	.57	E.60	E.005	.012	.027	.3
Feb 04...	E142	156	2	1.7	.613	.53	.06	2.2	2.3	E.004	.022	.047	.5
May 06...	E154	199	2	.24	.078	.47	.04	.71	.76	E.002	.013	.037	.5
Aug 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	186	230	8	3.6	1.63	.18	.21	3.8	4.0	.011	.058	.290	1.6

01407090 TOWN BROOK AT MIDDLETOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Inor- ganic carbon, susnd sedimnt total, mg/L (00688)	Organic carbon, susnd sedimnt total, mg/L (00689)	Organic carbon, water, flttd, mg/L (00681)	Arsenic water, flttd, µg/L (01000)	Arsenic water, unflttd µg/L (01002)	Barium, water, unflttd recover -able, µg/L (01007)	Beryll- ium, water, unflttd recover -able, µg/L (01012)	Boron, water, flttd, µg/L (01020)	Boron, water, unflttd recover -able, µg/L (01022)	Cadmium water, unflttd µg/L (01027)	Chrom- ium, water, unflttd recover -able, µg/L (01034)	Copper, water, flttd, µg/L (01040)	Copper, water, unflttd recover -able, µg/L (01042)
Nov 29...	<.04	.2	2.3	--	--	--	--	28	--	--	--	--	--
Feb 04...	<.04	.5	2.5	.48	.69	22.7	<.04	30	30	.02	<.40	--	12.3
May 06...	<.04	.5	2.2	--	--	--	--	29	--	--	--	--	--
Aug 06...	--	--	--	<.06	--	--	--	--	--	--	--	<1.0	--
06...	M	1.5	4.5	2.8	3.3	30.8	<.04	60	65	E.01	<.40	--	<1.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 5

[QC, quality control sample. Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Iron, water, unflttd recover -able, µg/L (01045)	Lead, water, flttd, µg/L (01049)	Lead, water, unflttd recover -able, µg/L (01051)	Mangan- ese, water, unflttd recover -able, µg/L (01055)	Mercury water, flttd, µg/L (71890)	Mercury water, unflttd recover -able, µg/L (71900)	Nickel, water, flttd, µg/L (01065)	Nickel, water, unflttd recover -able, µg/L (01067)	Selen- ium, water, unflttd µg/L (01147)	Silver, water, unflttd recover -able, µg/L (01077)	Zinc, water, flttd, µg/L (01090)	Zinc, water, unflttd recover -able, µg/L (01092)
Nov 29...	--	--	--	--	--	--	--	--	--	--	--	--
Feb 04...	1,080	--	.16	179	--	<.010	--	2.3	.09	<.02	--	5.4
May 06...	--	--	--	--	--	--	--	--	--	--	--	--
Aug 06...	--	<.08	--	--	<.010	--	<.20	--	--	--	<1.8	--
06...	3,880	--	.29	297	--	<.010	--	2.0	.13	<.02	--	4.0